



COST ACTION GREENERING – DATA COLLECTION

First name, Family Name: Alexandre Paiva
Type (Academic or Industrial): Industrial
Country: Portugal
Leadership position in the COST: Core Member
Working Group in which you are involved: WG2
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Laboratory/Company: DES Solutio Lda.

Laboratory/Company info (limited to 400 characters):

We are a Portuguese spin-off company from NOVA School of Science and Technology. The company was incorporated to exploit the scientific progress on Natural Deep Eutectic Solvents (NADES).

As pioneers of NADES the team is highly recognised internationally for their outstanding research, and their knowledge allows to create new formulations relying on 100% natural compounds found in nature.

Link to the home page of the Laboratory/Company: <https://www.dessolutio.com>

Fields of expertise (limited to 400 characters):

- Deep eutectic Systems (DES)
- (DES) Extracts for cosmetic and food applications
- DES for biomedical applications

5 Main publications or patents:

- Alexandre Paiva, Rita Craveiro, Ivo Aroso, Marta Martins, Rui L. Reis, Ana Rita C. Duarte, Natural Deep Eutectic Solvents – Solvents for the 21st century, sustainable chemistry & engineering, (2014), 2, 1063 – 1071, DOI: 10.1021/sc500096j (journal cover paper)
- PT patent application 20191000016722, Joana Silva, Carolina Pereira, Liliana Rodrigues, Rui L. Reis, Alexandre Paiva, Ana Matias, Ana Rita C. Duarte, Terpene based therapeutic deep eutectic solvent, method of obtaining and uses thereof, registered on 23/03/2019
- PT patent application 20191000011538, Joana Silva, Carolina Pereira, Francisca Mano, Rui L. Reis, Alexandre Paiva, Ana Matias, Ana Rita C. Duarte, Wound healing enhancers, methods of obtaining and uses thereof, registered on 25/02/2019
- WO/2018/211454 patent application, Castro V., Silva J. M., Craveiro R., Reis R. L., Paiva A., and Duarte A. R. C., Cryoprotectant and/or cryopreservant composition, methods and uses thereof, published on 22/11/2018



Collaborations:

- Portugal
 - NOVA School of Science and Technology
- Europe
 - Frontier IP
 - Cosmetic companies

Facilities:

- Semi-pilot DES production plant
- Complete thermo-physical characterization facilities
- Bioactivity evaluation facilities
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